Nuclear Instruments and Methods in Physics Research A 339 (1994) 631–641
North-Holland

NUCLEAR
INSTRUMENTS
& METHODS
IN PHYSICS
RESEARCH
Section A

Author index

Aalbers, A.H.L., see Reher, D.F.G. 339 (1994) 386
Aaltonen, H., S. Klemola and F. Ugletveit, Validation of a method for computer calculation of germanium detector efficiencies 339 (1994) 87
Abbott, B., B.L. Howell, D. Koltick, R.L. McIlwain, C.J. Schmitz, E.I. Shibata, Z. Zhou, B. Baumbaugh, M. Ivancic, J. Jaques, R. Kehoe, M. Kelley, M. Mahoney, J. Marchant, R. Ruchti, M. Wayne, M. Atac, A. Baumbaugh, J.E. Elias, A. Romero, D. Chrisman, J. Park, M.R. Adams, M. Chung, H. Goldberg, S. Margulies, J. Solomon, R. Chaney, J. Orgeron, T. Armstrong, R.A. Lewis, G.S. Mitchell, R.S. Moore, J. Passaneau, G.A. Smith, M. Corcoran, D. Adams, F. Bird, H. Fenker, T. Regan and J. Thomas, Beam test of a 12-layer scintillating-fiber charged-particle tracking system 339 (1994) 439
Abt, D., see Bourlat, Y. 339 (1994) 309
Aceña, M.L., M.T. Crespo, M.P. Galán and J.L. Gascón, Determination of isotopes of uranium and thorium in low-level environmental samples 339 (1994) 302
Ackermann, D., see Signorini, C. 339 (1994) 531
Adams, D., see Abbott, B. 339 (1994) 439
Adams, M.R., see Abbott, B. 339 (1994) 439
Agafonov, Yu., see Martynov, V. 339 (1994) 617
Ahmad, I., see Steinbauer, E. 339 (1994) 102
Ahmad, I., see Shannon, J.A. 339 (1994) 183
Ahmad, I., see Browne, E. 339 (1994) 209
Allen, C.K., see Guharay, S.K. 339 (1994) 429
Allport, P., see RD20 Collaboration 339 (1994) 511
Aoyama, T., see Mori, C. 339 (1994) 278
Apsimon, R., see RD20 Collaboration 339 (1994) 511
Ardisson, G., V. Barci and O. El Samad, ^{209}Tl half-life and gamma-ray measurements of radionuclides belonging to the $(4n + 1)$ decay chain 339 (1994) 168
Armstrong, T., see Abbott, B. 339 (1994) 439
Arnold, D. and G. Ulm, Determination of photon emission probabilities of radionuclides using a Si(Li) detector calibrated by the primary standard source, BESSY 339 (1994) 43
Arrighi, C., see RD20 Collaboration 339 (1994) 511
Atac, M., see Abbott, B. 339 (1994) 439
Avset, B.S., see RD20 Collaboration 339 (1994) 511

Baeza, A., see Sánchez, F. 339 (1994) 297
Barci, V., see Ardisson, G. 339 (1994) 168
Barrigón, J.M., see Sánchez, F. 339 (1994) 297
Bauer, P., see Steinbauer, E. 339 (1994) 102
Baumbaugh, A., see Abbott, B. 339 (1994) 439
Baumbaugh, B., see Abbott, B. 339 (1994) 439
Bé, M.M., see Duchemin, B. 339 (1994) 146
Becker, U.J., see Chang, Y.-H. 339 (1994) 524
Beghini, S., see Signorini, C. 339 (1994) 531
Behrens, U., G. Cases, A. Freidhof, A. Fürtjes, J. Mitchell, K. Molthagen, B. Surrow, T. Tsurugai and R. Yoshida, Calibration of the forward and rear ZEUS calorimeter using cosmic ray muons 339 (1994) 498
Bellamy, E.H., G. Bellettini, J. Budagov, F. Cervelli, I. Chirikov-Zorin, M. Incagli, D. Lucchesi, C. Pagliarone, S. Tokar and F. Zetti, Absolute calibration and monitoring of a spectrometric channel using a photomultiplier 339 (1994) 468
Bellettini, G., see Bellamy, E.H. 339 (1994) 468
Benson, S., see Liu, H. 339 (1994) 415
Biersack, J.P., see Steinbauer, E. 339 (1994) 102
Bird, F., see Abbott, B. 339 (1994) 439
Bisello, D., see RD20 Collaboration 339 (1994) 511
Bisognano, J., see Liu, H. 339 (1994) 415

0168-9002/94/$07.00 © 1994 – Elsevier Science B.V. All rights reserved

Bjerke, H., see Reher, D.F.G. 339 (1994) 386
Bland, C.J., Alpha-particle emission probabilities for ^{241}Am 339 (1994) 180
Bland, C.J., see Martín Sánchez, A. 339 (1994) 127
Bojanowski, R., Z. Radecki and S. Duniec, Determination of ^{89}Sr and ^{90}Sr in highly radioactive water from a nuclear power plant 339 (1994) 64
Booth, P., see RD20 Collaboration 339 (1994) 511
Bortels, G., see Steinbauer, E. 339 (1994) 102
Bouchard, J., see Massé, D. 339 (1994) 131
Bouchard, J., see Cassette, P. 339 (1994) 339
Bouchard, J., see Chauvenet, B. 339 (1994) 394
Bourlat, Y., J.-C. Millies-Lacroix and D. Abt, Measurement of low-level radioactivity in the Modane underground laboratory 339 (1994) 309
Bowes, G., see Santry, D. 339 (1994) 349
Boyanov, B.I., G. Bunker, J.M. Lee and T.I. Morrison, Numerical modeling of tapered undulators 339 (1994) 596
Brenner, R., see RD20 Collaboration 339 (1994) 477
Brenner, R., see RD20 Collaboration 339 (1994) 511
Brenner, R., see RD20 collaboration 339 (1994) 564
Browne, E., I. Ahmad, K.E. Gregorich, S.A. Kreek, D.M. Lee and D.C. Hoffman, Electron-capture decay of ^{231}U 339 (1994) 209
Brunel, M., see Martynov, V. 339 (1994) 617
Budagov, J., see Bellamy, E.H. 339 (1994) 468
Büermann, L., H.-M. Kramer, H. Schrader and H.-J. Selbach, Activity determination of ^{192}Ir solid sources by ionization chamber measurements using calculated corrections for self-absorption 339 (1994) 369
Bunker, G., see Boyanov, B.I. 339 (1994) 596
Burger, P., see Steinbauer, E. 339 (1994) 102
Burke, M., see Dean, J.C.J. 339 (1994) 264
Burns, K.I.W., see Martin, R.H. 339 (1994) 158

Cáceres Marzal, D., see Martín Sánchez, A. 339 (1994) 127
Calhoun, J.M., see Coursey, B.M. 339 (1994) 26
Cases, G., see Behrens, U. 339 (1994) 498
Cassette, P., J. Bouchard and B. Chauvenet, Standardization of iodine-129 by the TDCR liquid scintillation method and 4π $\beta-\gamma$ coincidence counting 339 (1994) 339
Cervelli, F., see Bellamy, E.H. 339 (1994) 468
Cessna, J., see Coursey, B.M. 339 (1994) 26
Chandler, M.J., see Hedley, R.P.L. 339 (1994) 253
Chaney, R., see Abbott, B. 339 (1994) 439
Chang, Y.-H., U.J. Becker, B.R. Smith and C. Wang, Drift velocities and magnetic deflection in CF_4 based gases 339 (1994) 524
Chauvenet, B. and J. Bouchard, Correction of the isomeric-state effect using the double dead-time method in the activity measurement of ^{75}Se 339 (1994) 394
Chauvenet, B., see Cassette, P. 339 (1994) 339
Chechev, V.P., see Egorov, A.G. 339 (1994) 248
Chen, C.M., see Tan, M. 339 (1994) 573
Chirikov-Zorin, I., see Bellamy, E.H. 339 (1994) 468
Chochula, P., see RD20 Collaboration 339 (1994) 511
Chrisman, D., see Abbott, B. 339 (1994) 439
Chung, M., see Abbott, B. 339 (1994) 439
Cianfarani, C., A. Duane, J.-P. Fabre, A. Frenkel, S.V. Golovkin, A.M. Gorin, K. Harrison, E.N. Kozarenko, A.E. Kushnirenko, E.A. Ladygin, G. Martellotti, A.M. Medvedkov, P.A. Nass, V.P. Obudovski, G. Penso, Yu.P. Petukhov, W.P. Siegmund, V.E. Tyukov and V.G. Vasilchenko, A high-resolution detector based on liquid-core scintillating fibres with readout via an electron-bombarded charge-coupled device 339 (1994) 449
Ciocăltei, V., see Stanef, I. 339 (1994) 363
Clark, F.E., see Makepeace, J.L. 339 (1994) 343
Clemens, J.-C., see RD20 Collaboration 339 (1994) 511
Cocco, D., see Li-Jun, L. 339 (1994) 604
Corcoran, M., see Abbott, B. 339 (1994) 439
Coron, N., see Massé, D. 339 (1994) 131
Corradi, L., see Signorini, C. 339 (1994) 531
Coursey, B.M., J.M. Calhoun, J. Cessna, D.B. Golas, F.J. Schima and M.P. Unterweger, Liquid-scintillation counting techniques for the standardization of radionuclides used in therapy 339 (1994) 26

Coursol, N., see Massé, D. 339 (1994) 131
Coursol, N., see Duchemin, B. 339 (1994) 146
Coursol, N., see Makepeace, J.L. 339 (1994) 343
Crespo, M.T., see Aceña, M.L. 339 (1994) 302
Cushman, P. and S. Hou, A position sensitive detector for the g-2 experiment using pencil fibers 339 (1994) 456

Dabrowski, W., see RD20 Collaboration 339 (1994) 511
Dal Bello, A., see Signorini, C. 339 (1994) 531
Danyluk, P., see Hedley, R.P.L. 339 (1994) 253
Das, J.J., see Sinha, A.K. 339 (1994) 543
da Silva, C.J., see Iwahara, A. 339 (1994) 381
Dean, J.C.J. and M. Burke, An intercomparison of ^{222}Rn measurement systems in European laboratories . . . 339 (1994) 264
Debertin, K., see Lépy, M.C. 339 (1994) 218
de Cabrejas, M.L., see Furnari, J.C. 339 (1994) 61
de Felice, P., see Jerome, S.M. 339 (1994) 55
del C. Rotta, M., see Furnari, J.C. 339 (1994) 61
Delpierre, P., see RD20 Collaboration 339 (1994) 511
de Marcillac, P., see Massé, D. 339 (1994) 131
Denecke, B., Absolute activity measurements with the windowless 4π-CsI(Tl)-sandwich spectrometer 339 (1994) 92
Denecke, B., see Reher, D.F.G. 339 (1994) 334
De Roost, E., see Reher, D.F.G. 339 (1994) 334
Derossi, A., see Lama, F. 339 (1994) 610
Dersch, R., see Jerome, S.M. 339 (1994) 55
de Sanoit, J., see Jerome, S.M. 339 (1994) 55
Drugge, N., see Reher, D.F.G. 339 (1994) 386
Duane, A., see Cianfarani, C. 339 (1994) 449
Duchemin, B., N. Coursol and M.M. Bé, The re-evaluation of decay data for the U-238 chain 339 (1994) 146
Dulinski, W., see RD20 Collaboration 339 (1994) 511
Duniec, S., see Bojanowski, R. 339 (1994) 64

Egorov, A.G. and V.P. Chechev, Measurements of absolute and relative emission probabilities of gamma- and X-rays and data evaluation in the decay of ^{155}Eu 339 (1994) 248
Elias, J.E., see Abbott, B. 339 (1994) 439
El Samad, O., see Ardisson, G. 339 (1994) 168
Erko, A., see Martynov, V. 339 (1994) 617
Etcheverry, M., see Morel, J. 339 (1994) 232
Evensen, L., see RD20 Collaboration 339 (1994) 511

Fabre, J.-P., see Cianfarani, C. 339 (1994) 449
Facco, A., see Signorini, C. 339 (1994) 531
Falk, R., N. Hagberg, L. Mjönes, H. Möre, L. Nyblom and G.A. Swedjemark, Standards, calibration and quality assurance of ^{222}Rn measurements in Sweden 339 (1994) 254
Farcaşiu, D.M., M. Sahagia and S. Sahagia, Measurements of the level of soil contamination using helicopters 339 (1994) 329
Fenker, H., see Abbott, B. 339 (1994) 439
Ferrero, J.L., see Sánchez, F. 339 (1994) 297
Florizone, R., see Vogt, J.M. 339 (1994) 425
Freidhof, A., see Behrens, U. 339 (1994) 498
Frenkel, A., see Cianfarani, C. 339 (1994) 449
Frolov, E.A., Measurements of radionuclide activity by the $(e-\alpha, \beta, \gamma, L_X)$ coincidence method using electrons with energies of a few eV emitted from radionuclides 339 (1994) 144
Furnari, J.C., M.I. Milá, M. del C. Rotta and M.L. de Cabrejas, ^{141}Ce source as mock standard for ^{99m}Tc . . . 339 (1994) 61
Fürtjes, A., see Behrens, U. 339 (1994) 498

Galán, M.P., see Aceña, M.L. 339 (1994) 302
García-León, M., see Martínez-Aguirre, A. 339 (1994) 287
Garcia-Toraño, E., see Rodriguez Barquero, L. 339 (1994) 6
García-Toraño, E., see Los Arcos, J.M. 339 (1994) 99
García-Toraño, E., Fitting of low-statistics peaks in alpha-particle spectra 339 (1994) 122
García-Toraño, E., see Los Arcos, J.M. 339 (1994) 164
Gascón, J.L., see Aceña, M.L. 339 (1994) 302

Genka, T., S. Iwamoto, N. Takeuchi, A. Uritani and C. Mori, Radioactivity measurements of ^{192}Ir wire sources with a microcalorimeter . . . 339 (1994) 398
Genka, T., see Miyahara, H. . . . 339 (1994) 203
Genka, T., see Uritani, A. . . . 339 (1994) 377
Genka, T., see Reher, D.F.G. . . . 339 (1994) 386
Gheorghiev, G., see Stanef, I. . . . 339 (1994) 363
Gill, K., see RD20 Collaboration . . . 339 (1994) 511
Giraldo, A., see RD20 Collaboration . . . 339 (1994) 511
Giubellino, P., see RD20 Collaboration . . . 339 (1994) 511
Golas, D.B., see Coursey, B.M. . . . 339 (1994) 26
Goldberg, H., see Abbott, B. . . . 339 (1994) 439
Golovkin, S.V., see Cianfarani, C. . . . 339 (1994) 449
Gorin, A.M., see Cianfarani, C. . . . 339 (1994) 449
Grau Carles, A., see Grau Malonda, A. . . . 339 (1994) 31
Grau Carles, A., L. Rodriguez Barquero and A. Grau Malonda, Deconvolution of ^{204}Tl/^{36}Cl and ^{147}Pm/^{45}Ca dual mixtures . . . 339 (1994) 71
Grau Malonda, A., see Rodriguez Barquero, L. . . . 339 (1994) 6
Grau Malonda, A., L. Rodriguez Barquero and A. Grau Carles, Radioactivity determination of ^{90}Y, ^{90}Sr and ^{89}Sr mixtures by spectral deconvolution . . . 339 (1994) 31
Grau Malonda, A., see Grau Carles, A. . . . 339 (1994) 71
Gray, P.W., see Kafala, S.I. . . . 339 (1994) 151
Greenwood, R.C., see Helmer, R.G. . . . 339 (1994) 189
Gregorich, K.E., see Browne, E. . . . 339 (1994) 209
Grigorescu, E.L., see Sahagia, M. . . . 339 (1994) 38
Grybos, P., see RD20 Collaboration . . . 339 (1994) 511
Guharay, S.K., C.K. Allen and M. Reiser, Study of beam dynamics for an intense, high-brightness H^- beam to design an efficient low-energy beam transport using ESQ lenses . . . 339 (1994) 429
Günther, E., see Schönfeld, E. . . . 339 (1994) 174
Günther, E., see Makepeace, J.L. . . . 339 (1994) 343
Günther, E.W., Standardization of ^{59}Fe and ^{131}I by liquid scintillation counting . . . 339 (1994) 402

Habrard, M.-C., see RD20 Collaboration . . . 339 (1994) 511
Hafidouni, M., Correction of measured multiplicity distributions by the simulated annealing method . . . 339 (1994) 570
Hagberg, N., see Falk, R. . . . 339 (1994) 254
Hall, G., see RD20 Collaboration . . . 339 (1994) 511
Hanneborg, A., see RD20 Collaboration . . . 339 (1994) 511
Hansen, T.A., see RD20 Collaboration . . . 339 (1994) 511
Harrison, K., see Cianfarani, C. . . . 339 (1994) 449
Hazama, M., see Kino, S. . . . 339 (1994) 580
Hedley, R.P.L., P. Danyluk, M.J. Chandler, C. Paton Walsh, M.J. Woods and J.P. Sephton, Problems, and measurement solutions developed, in the characterisation and use of ISO class I photon-emitting reference sources for the calibration of surface contamination monitors (*abstract*) . . . 339 (1994) 253
Helmer, R.G., R.C. Greenwood, K.D. Watts and M.H. Putnam, Beta-particle feeding distributions for $^{138-141}$Cs from total absorption gamma-ray spectrometer (TAGS) . . . 339 (1994) 189
Hertogen, J., see Wordel, R. . . . 339 (1994) 322
Heusser, G., Optimal shielding conditions for low level Ge detectors (*abstract*) . . . 339 (1994) 294
Hodge, P.A., see Unterweger, M.P. . . . 339 (1994) 109
Hoffman, D.C., see Browne, E. . . . 339 (1994) 209
Holm, E., see Roos, P. . . . 339 (1994) 282
Holmes-Siedle, A., see RD20 Collaboration . . . 339 (1994) 511
Honda, Y., see Ohkuma, J. . . . 339 (1994) 420
Hoogewerff, J., see Wordel, R. . . . 339 (1994) 322
Hou, S., see Cushman, P. . . . 339 (1994) 456
Howell, B.L., see Abbott, B. . . . 339 (1994) 439
Hutchinson, J.M.R., see Unterweger, M.P. . . . 339 (1994) 109

Idzik, M., see RD20 Collaboration . . . 339 (1994) 511
Igashira, M., see Senoo, K. . . . 339 (1994) 556
Incagli, M., see Bellamy, E.H. . . . 339 (1994) 468
Ivancic, M., see Abbott, B. . . . 339 (1994) 439
Ivanovich, M., see Martínez-Aguirre, A. . . . 339 (1994) 287

Iwahara, A., I.P.A. Salati, R. Poledna, C.J. da Silva and L. Tauhata, Influences from delayed events on the activity determination of ^{75}Se by the coincidence counting method 339 (1994) 381
Iwamoto, S., see Genka, T. 339 (1994) 398

Janssen, H., see Schönfeld, E. 339 (1994) 137
Janssen, H., see Schönfeld, E. 339 (1994) 174
Janssen, H. and R. Klein, Characterization of large-area reference sources for the calibration of alpha-contamination monitors 339 (1994) 318
Jaques, J., see Abbott, B. 339 (1994) 439
Jark, W., see Li-Jun, L. 339 (1994) 604
Jerome, S.M., M.J. Woods, P. de Felice, C. Pona, J. de Sanoit and R. Dersch, Development of a range of γ-ray emitting radioactive spiked reference materials for environmental monitoring – Part I 339 (1994) 55

Kafala, S.I., T.D. MacMahon and P.W. Gray, Testing of data evaluation methods 339 (1994) 151
Kaihola, L., Cosmic particle spectrum as a quench monitor in low level liquid scintillation spectrometry 339 (1994) 295
Kaplon, J., see RD20 Collaboration 339 (1994) 477
Karmalitsyn, N.I., see Konstantinov, A.A. 339 (1994) 200
Kataria, D.O., see Sinha, A.K. 339 (1994) 543
Kehoe, R., see Abbott, B. 339 (1994) 439
Kelley, M., see Abbott, B. 339 (1994) 439
Keyser, R.M., see Twomey, T.R. 339 (1994) 78
Khera, G.D., see Srivastava, P.K. 339 (1994) 391
Kimura, N., see Ohkuma, J. 339 (1994) 420
Kino, S., A. Nakanishi, T. Kitajima, T. Yanagita, T. Nakatsuka, N. Ohmori and M. Hazama, Investigation of detection threshold energy of high energy cascade shower using a thermoluminescence sheet and a hot gas reader 339 (1994) 580
Kitajima, T., see Kino, S. 339 (1994) 580
Klein, R., see Janssen, H. 339 (1994) 318
Klemola, S., see Aaltonen, H. 339 (1994) 87
Koltick, D., see Abbott, B. 339 (1994) 439
Konstantinov, A.A., T.E. Sazonova, S.V. Sepman, A.V. Zanevsky and N.I. Karmalitsyn, Determination of X-ray and gamma-ray emission probabilities of ^{51}Cr and ^{88}Y 339 (1994) 200
Kozarenko, E.N., see Cianfarani, C. 339 (1994) 449
Kraan, W.H., see Por, P.T. 339 (1994) 550
Kramer, H.-M., see Büermann, L. 339 (1994) 369
Krammer, M., see RD20 Collaboration 339 (1994) 511
Kreek, S.A., see Browne, E. 339 (1994) 209
Kruse, A., T. Reichel and G. Zech, A high resolution induction strip readout for wire chambers 339 (1994) 485
Kurchaninov, L., see RD20 Collaboration 339 (1994) 511
Kushnirenko, A.E., see Cianfarani, C. 339 (1994) 449

Ladygin, E.A., see Cianfarani, C. 339 (1994) 449
Lakosi, L., I. Pavlicsek and N.C. Tam, Anticoincidence counting of low intensity isomeric transitions 339 (1994) 226
Lama, F., A. Derossi, M. Piacentini and N. Zema, Optical design of an extended range plane grating monochromator for a bending magnet beamline 339 (1994) 610
Larsen, R.J., see Sanderson, C.G. 339 (1994) 271
Latner, N., see Sanderson, C.G. 339 (1994) 271
Leblanc, J., see Massé, D. 339 (1994) 131
Lee, D.M., see Browne, E. 339 (1994) 209
Lee, J.M., see Boyanov, B.I. 339 (1994) 596
Lépy, M.C. and K. Debertin, Determination of ^{239}Pu and ^{240}Pu L X-ray emission probabilities 339 (1994) 218
Lépy, M.C., J. Plagnard and J. Morel, Radiative Auger effect: an explanation for discrepancies between theoretical and experimental K_β/K_α X-ray emission probability ratios? 339 (1994) 241
Lewis, R.A., see Abbott, B. 339 (1994) 439
Li-Jun, L., D. Cocco and W. Jark, Simple plane grating monochromator for synchrotron radiation 339 (1994) 604
Liger, P., see Liu, H. 339 (1994) 415
Liu, H., S. Benson, J. Bisognano, P. Liger, G. Neil, D. Neuffer, C. Sinclair and B. Yunn, Numerical investigation of a laser gun injector at CEBAF 339 (1994) 415
Los Arcos, J.M., see Rodriguez Barquero, L. 339 (1994) 6
Los Arcos, J.M. and E. García-Toraño, A new digital pulse height analysis method for radiation spectroscopy 339 (1994) 99
Los Arcos, J.M., L. Rodríguez, M. Roteta and E. García-Toraño, Measurement of the half-life of ^{45}Ca 339 (1994) 164

Loukas, D., see RD20 Collaboration 339 (1994) 511
Lucchesi, D., see Bellamy, E.H. 339 (1994) 468

MacMahon, T.D., see Kafala, S.I. 339 (1994) 151
Madhavan, N., see Sinha, A.K. 339 (1994) 543
Mahoney, M., see Abbott, B. 339 (1994) 439
Makepeace, J.L., F.E. Clark, J.L. Picolo, N. Coursol, E. Günther and M.P. Unterweger, Intercomparison of internal proportional gas counting of ^{85}Kr and ^{3}H 339 (1994) 343
Marchant, J., see Abbott, B. 339 (1994) 439
Margulies, S., see Abbott, B. 339 (1994) 439
Martellotti, G., see Cianfarani, C. 339 (1994) 449
Martin, R.H., K.I.W. Burns and J.G.V. Taylor, A measurement of the half-life of ^{90}Sr 339 (1994) 158
Martínez-Aguirre, A., M. García-León and M. Ivanovich, U and Th distribution in solution and suspended matter from rivers affected by the phosphate rock processing in southwestern Spain 339 (1994) 287
Martín Sánchez, A., F. Vera Tomé, D. Cáceres Marzal and C.J. Bland, An experimental study of symmetric and asymmetric peak-fitting parameters for alpha-particle spectrometry 339 (1994) 127
Martynov, V., B. Vidal, P. Vincent, M. Brunel, D.V. Roschupkin, Yu. Agafonov, A. Erko and A. Yuakshin, Comparison of modal and differential methods for multilayer gratings 339 (1994) 617
Massé, D., J. Bouchard, J.-L. Picolo, N. Coursol, J.P. Torre, J.W. Zhou, N. Coron, P. de Marcillac, J. Leblanc and H. Stroke, Further investigations of thermal cryogenic detectors in the field of ionizing radiation metrology 339 (1994) 131
Matache, G., see Stanef, I. 339 (1994) 363
Matsumura, A., see Mori, C. 339 (1994) 278
Matumoto, H., see Miyahara, H. 339 (1994) 203
McIlwain, R.L., see Abbott, B. 339 (1994) 439
Medvedkov, A.M., see Cianfarani, C. 339 (1994) 449
Mehta, G.K., see Sinha, A.K. 339 (1994) 543
Meyer, B.R., see Simpson, B.R.S. 339 (1994) 14
Michel, J., see RD20 collaboration 339 (1994) 564
Michele, J., see RD20 Collaboration 339 (1994) 511
Mikulec, I., see RD20 Collaboration 339 (1994) 511
Milá, M.I., see Furnari, J.C. 339 (1994) 61
Millies-Lacroix, J.-C., see Bourlat, Y. 339 (1994) 309
Misiakos, K., see RD20 Collaboration 339 (1994) 511
Misra, S.C., see Srivastava, P.K. 339 (1994) 391
Mitchell, G.S., see Abbott, B. 339 (1994) 439
Mitchell, J., see Behrens, U. 339 (1994) 498
Miyahara, H., H. Matumoto, C. Mori, N. Takeuchi and T. Genka, Determination of gamma-ray emission probabilities for ^{75}Se, ^{166m}Ho and ^{192}Ir by a self-consistent method 339 (1994) 203
Miyahara, H., see Mori, C. 339 (1994) 278
Mjönes, L., see Falk, R. 339 (1994) 254
Molthagen, K., see Behrens, U. 339 (1994) 498
Montagnoli, G., see Signorini, C. 339 (1994) 531
Moore, R.S., see Abbott, B. 339 (1994) 439
Möre, H., see Falk, R. 339 (1994) 254
Morel, J., M. Etcheverry and M. Vallée, Emission probabilities of L X-, K X- and γ-rays in the 10–130 keV range following the decay of ^{239}Pu 339 (1994) 232
Morel, J., see Lépy, M.C. 339 (1994) 241
Moreno, H., see Signorini, C. 339 (1994) 531
Mori, C., see Miyahara, H. 339 (1994) 203
Mori, C., A. Matsumura, T. Suzuki, H. Miyahara, T. Aoyama and K. Nishizawa, Detection of extremely low level radioactivity with imaging plate 339 (1994) 278
Mori, C., see Uritani, A. 339 (1994) 377
Mori, C., see Genka, T. 339 (1994) 398
Morrison, T.I., see Boyanov, B.I. 339 (1994) 596
Morss, L.R., see Shannon, J.A. 339 (1994) 183
Moser, H.-G., see RD20 Collaboration 339 (1994) 511
Moszczynski, S., see RD20 Collaboration 339 (1994) 511
Mouchel, D., see Wordel, R. 339 (1994) 322
Mouthuy, T., see RD20 Collaboration 339 (1994) 511
Müller, L., see Signorini, C. 339 (1994) 531

Nagai, Y., see Senoo, K. 339 (1994) 556
Nakanishi, A., see Kino, S. 339 (1994) 580
Nakatsuka, T., see Kino, S. 339 (1994) 580
Napoli, D.R., see Signorini, C. 339 (1994) 531
Nass, P.A., see Cianfarani, C. 339 (1994) 449
Navarro, E., see Sánchez, F. 339 (1994) 297
Neil, G., see Liu, H. 339 (1994) 415
Neuffer, D., see Liu, H. 339 (1994) 415
Nikitin, Ye., see Vesnovskii, S. 339 (1994) 70
Nishizawa, K., see Mori, C. 339 (1994) 278
Nyblom, L., see Falk, R. 339 (1994) 254
Nygård, E., see RD20 Collaboration 339 (1994) 477
Nygård, E., see RD20 collaboration 339 (1994) 564

Obudovski, V.P., see Cianfarani, C. 339 (1994) 449
Ødegaard, T., see RD20 collaboration 339 (1994) 564
Ohkuma, J., S. Okuda, Y. Honda, N. Kimura and T. Okada, Performance of a bunch width control system for coherent radiation with a high-current linear accelerator 339 (1994) 420
Ohmori, N., see Kino, S. 339 (1994) 580
Ohsaki, T., see Senoo, K. 339 (1994) 556
Okada, T., see Ohkuma, J. 339 (1994) 420
Okuda, S., see Ohkuma, J. 339 (1994) 420
Orgeron, J., see Abbott, B. 339 (1994) 439

Paccagnella, A., see RD20 Collaboration 339 (1994) 511
Pagliarone, C., see Bellamy, E.H. 339 (1994) 468
Park, J., see Abbott, B. 339 (1994) 439
Parus, J.L., see Raab, W. 339 (1994) 116
Passaneau, J., see Abbott, B. 339 (1994) 439
Paton Walsh, C., see Hedley, R.P.L. 339 (1994) 253
Patro, A.P., see Sinha, A.K. 339 (1994) 543
Pavlicsek, I., see Lakosi, L. 339 (1994) 226
Penso, G., see Cianfarani, C. 339 (1994) 449
Perks, C.A., see Smith, D. 339 (1994) 1
Persson, R.B.R., see Roos, P. 339 (1994) 282
Petukhov, Yu.P., see Cianfarani, C. 339 (1994) 449
Phillips, W.R., see Shannon, J.A. 339 (1994) 183
Piacentini, M., see Lama, F. 339 (1994) 610
Picolo, J.-L., see Massé, D. 339 (1994) 131
Picolo, J.L., see Makepeace, J.L. 339 (1994) 343
Plagnard, J., see Lépy, M.C. 339 (1994) 241
Poledna, R., see Iwahara, A. 339 (1994) 381
Polynov, V., see Vesnovskii, S. 339 (1994) 70
Pona, C., see Jerome, S.M. 339 (1994) 55
Popescu, C.C., see Sahagia, M. 339 (1994) 38
Por, P.T., W.H. Kraan and M.Th. Rekveldt, Separating the polarising power from depolarisation in a set-up with 3 neutron polarisers 339 (1994) 550
Prado da Silva, W.L., see RD20 Collaboration 339 (1994) 511
Prete, G.F., see Signorini, C. 339 (1994) 531
Putnam, M.H., see Helmer, R.G. 339 (1994) 189

Raab, W. and J.L. Parus, The measurement of $^{240}Pu/^{239}Pu$ and $^{238}Pu/^{239}Pu$ isotopic ratios by alpha-particle spectrometry 339 (1994) 116
Radecki, Z., see Bojanowski, R. 339 (1994) 64
Radoszewski, T., see Terlikowska-Droździel, T. 339 (1994) 21
Ramello, L., see RD20 Collaboration 339 (1994) 511
Ratel, G., Measurement of the activity concentration of a solution of ^{75}Se 339 (1994) 408
Razdolescu, A.C., see Sahagia, M. 339 (1994) 38
RD20 Collaboration, R. Brenner, J. Kaplon, H. von der Lippe, E. Nygård, S. Roe, P. Weilhammer and K. Yoshioka, Performance of a LHC front-end running at 67 MHz 339 (1994) 477

RD20 Collaboration, A. Holmes-Siedle, M. Robbins, S. Watts, P. Allport, R. Brenner, H.-G. Moser, S. Roe, J. Straver, P. Weilhammer, P. Chochula, I. Mikulec, S. Moszczynski, M. Turala, W. Dabrowski, P. Grybos, M. Idzik, D. Loukas, K. Misiakos, I. Siotis, K. Zachariadou, W. Dulinski, J. Michele, M. Schaeffer, R. Turchetta, P. Booth, J. Richardson, N. Smith, K. Gill, G. Hall, R. Sachdeva, S. Sotthibandhu, D. Vitè, R. Wheadon, C. Arrighi, P. Delpierre, M.-C. Habrard, J.-C. Clemens, T. Mouthuy, B.S. Avset, L. Evensen, A. Hanneborg, T.A. Hansen, D. Bisello, A. Giraldo, A. Paccagnella, L. Kurchaninov, E. Spiriti, R. Apsimon, P. Giubellino, L. Ramello, W.L. Prado da Silva, M. Krammer and M. Schuster, Radiation tolerance of single-sided silicon microstrips 339 (1994) 511
RD20 collaboration, R. Brenner, H. von der Lippe, J. Michel, E. Nygård, T. Ødegaard, N.A. Smith, P. Weilhammer and K. Yoshioka, Design and performance of an analog delay and buffer chip for use with silicon strip detectors at LHC 339 (1994) 564
Regan, T., see Abbott, B. 339 (1994) 439
Reher, D.F.G., B. Denecke, E. De Roost and K. van der Meer, Standardization of a 50 GBq ^{152,154}Eu extended volume source 339 (1994) 334
Reher, D.F.G., see Uritani, A. 339 (1994) 377
Reher, D.F.G., A.H.L. Aalbers, H. Bjerke, N. Drugge, T. Genka, M.J. Rossiter, D. Santry, J.P. Sephton, G. Sibbens, J. Seuntjens, H. Thierens, F. Verhaegen, T.T. Williams and M.J. Woods, Second EUROMET comparison of air kerma rate and activity measurements of ^{192}Ir brachytherapy wires 339 (1994) 386
Reichel, T., see Kruse, A. 339 (1994) 485
Reiser, M., see Guharay, S.K. 339 (1994) 429
Rekveldt, M.Th., see Por, P.T. 339 (1994) 550
Richardson, J., see RD20 Collaboration 339 (1994) 511
Robbins, M., see RD20 Collaboration 339 (1994) 511
Rodríguez, L., see Los Arcos, J.M. 339 (1994) 164
Rodriguez Barquero, L., J.M. Los Arcos, A. Grau Malonda and E. Garcia-Toraño, LSC standardization of ^{45}Ca by the CIEMAT/NIST efficiency tracing method 339 (1994) 6
Rodriguez Barquero, L., see Grau Malonda, A. 339 (1994) 31
Rodriguez Barquero, L., see Grau Carles, A. 339 (1994) 71
Roe, S., see RD20 Collaboration 339 (1994) 477
Roe, S., see RD20 Collaboration 339 (1994) 511
Romero, A., see Abbott, B. 339 (1994) 439
Roos, P., E. Holm and R.B.R. Persson, Comparison of AMP precipitate method and impregnated $Cu_2[Fe(CN)_6]$ filters for the determination of radiocesium concentrations in natural waters 339 (1994) 282
Roschupkin, D.V., see Martynov, V. 339 (1994) 617
Rossiter, M.J., see Reher, D.F.G. 339 (1994) 386
Roteta, M., see Los Arcos, J.M. 339 (1994) 164
Ruchti, R., see Abbott, B. 339 (1994) 439

Sachdeva, R., see RD20 Collaboration 339 (1994) 511
Sahagia, M., E.L. Grigorescu, C.C. Popescu and A.C. Razdolescu, National comparison of environmental sample activity measurement 339 (1994) 38
Sahagia, M., see Farcaşiu, D.M. 339 (1994) 329
Sahagia, S., see Farcaşiu, D.M. 339 (1994) 329
Sahoo, H.K., see Srivastava, P.K. 339 (1994) 391
Salati, I.P.A., see Iwahara, A. 339 (1994) 381
Saldin, E.L., V.P. Sarantsev, E.A. Schneidmiller and M.V. Yurkov, On a possibility to construct a high luminosity 2×5 GeV photon collider at SLC 339 (1994) 583
Sánchez, F., E. Navarro, J.L. Ferrero, A. Baeza and J.M. Barrigón, Study of the background components for a Ge(HP) detector in environmental radioactivity measurements 339 (1994) 297
Sanderson, C.G., N. Latner and R.J. Larsen, Environmental gamma-ray spectroscopy at remote sites with satellite data transmission 339 (1994) 271
Santry, D. and G. Bowes, A personal computer based data acquisition system for the direct standardization of radionuclides 339 (1994) 349
Santry, D., see Reher, D.F.G. 339 (1994) 386
Sarantsev, V.P., see Saldin, E.L. 339 (1994) 583
Sazonova, T.E., see Konstantinov, A.A. 339 (1994) 200
Scarlassara, F., see Signorini, C. 339 (1994) 531
Schaeffer, M., see RD20 Collaboration 339 (1994) 511
Schima, F.J., see Coursey, B.M. 339 (1994) 26
Schmitz, C.J., see Abbott, B. 339 (1994) 439
Schneidmiller, E.A., see Saldin, E.L. 339 (1994) 583

Scholze, F. and G. Ulm, Characterization of a windowless Si(Li) detector in the photon energy range 0.1–5 keV 339 (1994) 49
Schönfeld, E. and H. Janssen, Precise measurement of dead time 339 (1994) 137
Schönfeld, E., H. Janssen, U. Schötzig, E. Günther and H. Schrader, Standardization and decay data of ^{186}Re 339 (1994) 174
Schötzig, U., see Schönfeld, E. 339 (1994) 174
Schrader, H., see Schönfeld, E. 339 (1994) 174
Schrader, H., see Büermann, L. 339 (1994) 369
Schuster, M., see RD20 Collaboration 339 (1994) 511
Segato, G.F., see Signorini, C. 339 (1994) 531
Selbach, H.-J., see Büermann, L. 339 (1994) 369
Senoo, K., Y. Nagai, T. Shima, T. Ohsaki and M. Igashira, A Monte Carlo code for multiple neutron scattering events in a thick sample for (n, γ) experiments 339 (1994) 556
Sephton, J.P., see Hedley, R.P.L. 339 (1994) 253
Sephton, J.P., see Reher, D.F.G. 339 (1994) 386
Sepman, S.V., see Konstantinov, A.A. 339 (1994) 200
Seuntjens, J., see Reher, D.F.G. 339 (1994) 386
Shannon, J.A., W.R. Phillips, B.J. Varley, I. Ahmad and L.R. Morss, Coincidence measurements following the alpha decay of ^{245}Cm 339 (1994) 183
Shibata, E.I., see Abbott, B. 339 (1994) 439
Shima, T., see Senoo, K. 339 (1994) 556
Sibbens, G., see Reher, D.F.G. 339 (1994) 386
Siegmund, W.P., see Cianfarani, C. 339 (1994) 449
Signorini, C., S. Beghini, A. Dal Bello, G. Montagnoli, F. Scarlassara, G.F. Segato, F. Soramel, D. Ackermann, L. Corradi, A. Facco, H. Moreno, L. Müller, D.R. Napoli and G.F. Prete, Performance of the LNL recoil mass spectrometer 339 (1994) 531
Simpson, B.R.S. and B.R. Meyer, Direct activity measurement of pure beta-emitting radionuclides by the TDCR efficiency calculation technique 339 (1994) 14
Sinclair, C., see Liu, H. 339 (1994) 415
Sinha, A.K., N. Madhavan, J.J. Das, P. Sugathan, D.O. Kataria, A.P. Patro and G.K. Mehta, Heavy ion reaction analyzer (HIRA): a recoil mass separator facility at NSC 339 (1994) 543
Siotis, I., see RD20 Collaboration 339 (1994) 511
Smith, B.R., see Chang, Y.-H. 339 (1994) 524
Smith, D. and C.A. Perks, Calibration of the sulphur detector in the UK criticality dosemeter 339 (1994) 1
Smith, D. and D.H. Woods, Measurement of ^{75}Se activity by correlation and coincidence counting 339 (1994) 357
Smith, D.L., Concept and significance of a dimensionless sensitivity matrix in applications of generalized least-squares analysis 339 (1994) 626
Smith, G.A., see Abbott, B. 339 (1994) 439
Smith, N., see RD20 Collaboration 339 (1994) 511
Smith, N.A., see RD20 collaboration 339 (1994) 564
Solé, V.A., see Wordel, R. 339 (1994) 322
Solomon, J., see Abbott, B. 339 (1994) 439
Soramel, F., see Signorini, C. 339 (1994) 531
Sotthibandhu, S., see RD20 Collaboration 339 (1994) 511
Spiriti, E., see RD20 Collaboration 339 (1994) 511
Srivastava, P.K., H.K. Sahoo, G.D. Khera and S.C. Misra, Standardization of selenium-75: some observations 339 (1994) 391
Stanef, I., G. Matache, V. Ciocăltei and G. Gheorghiev, The treatment of malignant diseases in Romania using stainless steel encapsulated iridium-192 sources 339 (1994) 363
Steinbauer, E., G. Bortels, P. Bauer, J.P. Biersack, P. Burger and I. Ahmad, A survey of the physical processes which determine the response function of silicon detectors to alpha particles 339 (1994) 102
Straver, J., see RD20 Collaboration 339 (1994) 511
Stroke, H., see Massé, D. 339 (1994) 131
Sugathan, P., see Sinha, A.K. 339 (1994) 543
Surrow, B., see Behrens, U. 339 (1994) 498
Suzuki, T., see Mori, C. 339 (1994) 278
Swedjemark, G.A., see Falk, R. 339 (1994) 254

Takeuchi, N., see Miyahara, H. 339 (1994) 203
Takeuchi, N., see Genka, T. 339 (1994) 398
Tam, N.C., see Lakosi, L. 339 (1994) 226
Tan, M., C.M. Chen, Y.Q. Wen and Z. Wang, The energy response of a spherical neutron dose equivalent counter 339 (1994) 573

Tauhata, L., see Iwahara, A. 339 (1994) 381
Taylor, J.G.V., see Martin, R.H. 339 (1994) 158
Terlikowska-Droździel, T. and T. Radoszewski, An investigation of the various liquid scintillators used to count low-energy emitters 339 (1994) 21
Thierens, H., see Reher, D.F.G. 339 (1994) 386
Thomas, J., see Abbott, B. 339 (1994) 439
Tokar, S., see Bellamy, E.H. 339 (1994) 468
Torre, J.P., see Massé, D. 339 (1994) 131
Tsurugai, T., see Behrens, U. 339 (1994) 498
Turala, M., see RD20 Collaboration 339 (1994) 511
Turchetta, R., see RD20 Collaboration 339 (1994) 511
Twomey, T.R. and R.M. Keyser, Advances in large-diameter, low-energy HPGe detectors 339 (1994) 78
Tyukov, V.E., see Cianfarani, C. 339 (1994) 449

Ugletveit, F., see Aaltonen, H. 339 (1994) 87
Ulm, G., see Arnold, D. 339 (1994) 43
Ulm, G., see Scholze, F. 339 (1994) 49
Unterweger, M.P., see Coursey, B.M. 339 (1994) 26
Unterweger, M.P., J.M.R. Hutchinson and P.A. Hodge, Measurement and calibration of large-area alpha-particle sources at NIST 339 (1994) 109
Unterweger, M.P., see Makepeace, J.L. 339 (1994) 343
Uritani, A., T. Genka, C. Mori and D.F.G. Reher, Analytical calculations on radioactivity measurements of ^{192}Ir metallic sources with a calibrated ionization chamber 339 (1994) 377
Uritani, A., see Genka, T. 339 (1994) 398

Vallée, M., see Morel, J. 339 (1994) 232
van der Meer, K., see Reher, D.F.G. 339 (1994) 334
Varley, B.J., see Shannon, J.A. 339 (1994) 183
Vasilchenko, V.G., see Cianfarani, C. 339 (1994) 449
Vera Tomé, F., see Martín Sánchez, A. 339 (1994) 127
Verhaegen, F., see Reher, D.F.G. 339 (1994) 386
Vesnovskii, S., V. Polynov, Ye. Nikitin and V. Vjachin et al., Superpure isotopic preparates of actinides for reference materials and sources (*abstract*) 339 (1994) 70
Vidal, B., see Martynov, V. 339 (1994) 617
Vincent, P., see Martynov, V. 339 (1994) 617
Vitè, D., see RD20 Collaboration 339 (1994) 511
Vjachin, V., see Vesnovskii, S. 339 (1994) 70
Vogt, J.M. and R. Florizone, A duty factor monitor for use with a near cw electron beam 339 (1994) 425
von der Lippe, H., see RD20 Collaboration 339 (1994) 477
von der Lippe, H., see RD20 collaboration 339 (1994) 564

Wang, C., see Chang, Y.-H. 339 (1994) 524
Wang, Z., see Tan, M. 339 (1994) 573
Watts, K.D., see Helmer, R.G. 339 (1994) 189
Watts, S., see RD20 Collaboration 339 (1994) 511
Wayne, M., see Abbott, B. 339 (1994) 439
Weilhammer, P., see RD20 Collaboration 339 (1994) 477
Weilhammer, P., see RD20 Collaboration 339 (1994) 511
Weilhammer, P., see RD20 collaboration 339 (1994) 564
Wen, Y.Q., see Tan, M. 339 (1994) 573
Wheadon, R., see RD20 Collaboration 339 (1994) 511
Williams, T.T., see Reher, D.F.G. 339 (1994) 386
Woods, D.H., see Smith, D. 339 (1994) 357
Woods, M.J., see Jerome, S.M. 339 (1994) 55
Woods, M.J., see Hedley, R.P.L. 339 (1994) 253
Woods, M.J., see Reher, D.F.G. 339 (1994) 386
Wordel, R., D. Mouchel, V.A. Solé, J. Hoogewerff and J. Hertogen, Investigation of the natural radioactivity of volcanic rock samples using a low background gamma-ray spectrometer 339 (1994) 322

Yanagita, T., see Kino, S. 339 (1994) 580
Yoshida, R., see Behrens, U. 339 (1994) 498

Yoshioka, K., see RD20 Collaboration 339 (1994) 477
Yoshioka, K., see RD20 collaboration 339 (1994) 564
Yuakshin, A., see Martynov, V. 339 (1994) 617
Yunn, B., see Liu, H. 339 (1994) 415
Yurkov, M.V., see Saldin, E.L. 339 (1994) 583

Zachariadou, K., see RD20 Collaboration 339 (1994) 511
Zanevsky, A.V., see Konstantinov, A.A. 339 (1994) 200
Zarnecki, A.F., Fast simulation of longitudinal hadron shower profiles in the ZEUS calorimeter 339 (1994) 491
Zech, G., see Kruse, A. 339 (1994) 485
Zema, N., see Lama, F. 339 (1994) 610
Zetti, F., see Bellamy, E.H. 339 (1994) 468
Zhou, J.W., see Massé, D. 339 (1994) 131
Zhou, Z., see Abbott, B. 339 (1994) 439

Nuclear Instruments and Methods in Physics Research A 339 (1994) 642–646
North-Holland

NUCLEAR
INSTRUMENTS
& METHODS
IN PHYSICS
RESEARCH
Section A

Subject index

Accelerators, Beam Handling and Targets

Numerical investigation of a laser gun injector at CEBAF, H. Liu, S. Benson, J. Bisognano, P. Liger, G. Neil, D. Neuffer, C. Sinclair and B. Yunn 339 (1994) 415
Performance of a bunch width control system for coherent radiation with a high-current linear accelerator, J. Ohkuma, S. Okuda, Y. Honda, N. Kimura and T. Okada 339 (1994) 420
A duty factor monitor for use with a near cw electron beam, J.M. Vogt and R. Florizone 339 (1994) 425
Study of beam dynamics for an intense, high-brightness H^- beam to design an efficient low-energy beam transport using ESQ lenses, S.K. Guharay, C.K. Allen and M. Reiser 339 (1994) 429

Instruments and Methods for High Energy Physics

Proceedings of the ICRM Symposium on Radionuclide Metrology and its Applications (Teddington, UK, June 7–9, 1993)

Section I. Counting techniques

Calibration of the sulphur detector in the UK criticality dosemeter, D. Smith and C.A. Perks 339 (1994) 1
LSC standardization of ^{45}Ca by the CIEMAT/NIST efficiency tracing method, L. Rodriguez Barquero, J.M. Los Arcos, A. Grau Malonda and E. Garcia-Toraño 339 (1994) 6
Direct activity measurement of pure beta-emitting radionuclides by the TDCR efficiency calculation technique, B.R.S. Simpson and B.R. Meyer 339 (1994) 14
An investigation of the various liquid scintillators used to count low-energy emitters, T. Terlikowska-Droździel and T. Radoszewski 339 (1994) 21
Liquid-scintillation counting techniques for the standardization of radionuclides used in therapy, B.M. Coursey, J.M. Calhoun, J. Cessna, D.B. Golas, F.J. Schima and M.P. Unterweger 339 (1994) 26
Radioactivity determination of ^{90}Y, ^{90}Sr and ^{89}Sr mixtures by spectral deconvolution, A. Grau Malonda, L. Rodriguez Barquero and A. Grau Carles 339 (1994) 31
National comparison of environmental sample activity measurement, M. Sahagia, E.L. Grigorescu, C.C. Popescu and A.C. Razdolescu 339 (1994) 38
Determination of photon emission probabilities of radionuclides using a Si(Li) detector calibrated by the primary standard source, BESSY, D. Arnold and G. Ulm 339 (1994) 43
Characterization of a windowless Si(Li) detector in the photon energy range 0.1–5 keV, F. Scholze and G. Ulm 339 (1994) 49
Development of a range of γ-ray emitting radioactive spiked reference materials for environmental monitoring – Part I, S.M. Jerome, M.J. Woods, P. de Felice, C. Pona, J. de Sanoit and R. Dersch 339 (1994) 55
^{141}Ce source as mock standard for ^{99m}Tc, J.C. Furnari, M.I. Milá, M. del C. Rotta and M.L. de Cabrejas 339 (1994) 61
Determination of ^{89}Sr and ^{90}Sr in highly radioactive water from a nuclear power plant, R. Bojanowski, Z. Radecki and S. Duniec 339 (1994) 64
Superpure isotopic preparates of actinides for reference materials and sources (*abstract*), S. Vesnovskii, V. Polynov, Ye. Nikitin and V. Vjachin et al. 339 (1994) 70
Deconvolution of $^{204}Tl/^{36}Cl$ and $^{147}Pm/^{45}Ca$ dual mixtures, A. Grau Carles, L. Rodriguez Barquero and A. Grau Malonda 339 (1994) 71

Section II. Radiation detection and measurement

Advances in large-diameter, low-energy HPGe detectors, T.R. Twomey and R.M. Keyser 339 (1994) 78
Validation of a method for computer calculation of germanium detector efficiencies, H. Aaltonen, S. Klemola and F. Ugletveit 339 (1994) 87

0168-9002/94/$07.00 © 1994 – Elsevier Science B.V. All rights reserved

Absolute activity measurements with the windowless 4π-CsI(Tl)-sandwich spectrometer, B. Denecke 339 (1994) 92
A new digital pulse height analysis method for radiation spectroscopy, J.M. Los Arcos and E. García-Toraño . 339 (1994) 99
A survey of the physical processes which determine the response function of silicon detectors to alpha particles, E. Steinbauer, G. Bortels, P. Bauer, J.P. Biersack, P. Burger and I. Ahmad 339 (1994) 102
Measurement and calibration of large-area alpha-particle sources at NIST, M.P. Unterweger, J.M.R. Hutchinson and P.A. Hodge 339 (1994) 109
The measurement of $^{240}Pu/^{239}Pu$ and $^{238}Pu/^{239}Pu$ isotopic ratios by alpha-particle spectrometry, W. Raab and J.L. Parus 339 (1994) 116
Fitting of low-statistics peaks in alpha-particle spectra, E. García-Toraño 339 (1994) 122
An experimental study of symmetric and asymmetric peak-fitting parameters for alpha-particle spectrometry, A. Martín Sánchez, F. Vera Tomé, D. Cáceres Marzal and C.J. Bland 339 (1994) 127
Further investigations of thermal cryogenic detectors in the field of ionizing radiation metrology, D. Massé, J. Bouchard, J.-L. Picolo, N. Coursol, J.P. Torre, J.W. Zhou, N. Coron, P. de Marcillac, J. Leblanc and H. Stroke 339 (1994) 131
Precise measurement of dead time, E. Schönfeld and H. Janssen 339 (1994) 137
Measurements of radionuclide activity by the (e–α, β, γ, L_X) coincidence method using electrons with energies of a few eV emitted from radionuclides, E.A. Frolov 339 (1994) 144

Section III. Nuclear data

The re-evaluation of decay data for the U-238 chain, B. Duchemin, N. Coursol and M.M. Bé 339 (1994) 146
Testing of data evaluation methods, S.I. Kafala, T.D. MacMahon and P.W. Gray 339 (1994) 151
A measurement of the half-life of ^{90}Sr, R.H. Martin, K.I.W. Burns and J.G.V. Taylor 339 (1994) 158
Measurement of the half-life of ^{45}Ca, J.M. Los Arcos, L. Rodríguez, M. Roteta and E. García-Toraño 339 (1994) 164
^{209}Tl half-life and gamma-ray measurements of radionuclides belonging to the $(4n + 1)$ decay chain, G. Ardisson, V. Barci and O. El Samad 339 (1994) 168
Standardization and decay data of ^{186}Re, E. Schönfeld, H. Janssen, U. Schötzig, E. Günther and H. Schrader 339 (1994) 174
Alpha-particle emission probabilities for ^{241}Am, C.J. Bland 339 (1994) 180
Coincidence measurements following the alpha decay of ^{245}Cm, J.A. Shannon, W.R. Phillips, B.J. Varley, I. Ahmad and L.R. Morss 339 (1994) 183
Beta-particle feeding distributions for $^{138-141}Cs$ from total absorption gamma-ray spectrometer (TAGS), R.G. Helmer, R.C. Greenwood, K.D. Watts and M.H. Putnam 339 (1994) 189
Determination of X-ray and gamma-ray emission probabilities of ^{51}Cr and ^{88}Y, A.A. Konstantinov, T.E. Sazonova, S.V. Sepman, A.V. Zanevsky and N.I. Karmalitsyn 339 (1994) 200
Determination of gamma-ray emission probabilities for ^{75}Se, ^{166m}Ho and ^{192}Ir by a self-consistent method, H. Miyahara, H. Matumoto, C. Mori, N. Takeuchi and T. Genka 339 (1994) 203
Electron-capture decay of ^{231}U, E. Browne, I. Ahmad, K.E. Gregorich, S.A. Kreek, D.M. Lee and D.C. Hoffman 339 (1994) 209
Determination of ^{239}Pu and ^{240}Pu L X-ray emission probabilities, M.C. Lépy and K. Debertin 339 (1994) 218
Anticoincidence counting of low intensity isomeric transitions, L. Lakosi, I. Pavlicsek and N.C. Tam 339 (1994) 226
Emission probabilities of L X-, K X- and γ-rays in the 10–130 keV range following the decay of ^{239}Pu, J. Morel, M. Etcheverry and M. Vallée 339 (1994) 232
Radiative Auger effect: an explanation for discrepancies between theoretical and experimental K_β/K_α X-ray emission probability ratios?, M.C. Lépy, J. Plagnard and J. Morel 339 (1994) 241
Measurements of absolute and relative emission probabilities of gamma- and X-rays and data evaluation in the decay of ^{155}Eu, A.G. Egorov and V.P. Chechev 339 (1994) 248

Section IV. Low level measurements

Problems, and measurement solutions developed, in the characterisation and use of ISO class I photon-emitting reference sources for the calibration of surface contamination monitors (*abstract*), R.P.L. Hedley, P. Danyluk, M.J. Chandler, C. Paton Walsh, M.J. Woods and J.P. Sephton 339 (1994) 253
Standards, calibration and quality assurance of ^{222}Rn measurements in Sweden, R. Falk, N. Hagberg, L. Mjönes, H. Möre, L. Nyblom and G.A. Swedjemark 339 (1994) 254
An intercomparison of ^{222}Rn measurement systems in European laboratories, J.C.J. Dean and M. Burke 339 (1994) 264
Environmental gamma-ray spectroscopy at remote sites with satellite data transmission, C.G. Sanderson, N. Latner and R.J. Larsen 339 (1994) 271
Detection of extremely low level radioactivity with imaging plate, C. Mori, A. Matsumura, T. Suzuki, H. Miyahara, T. Aoyama and K. Nishizawa 339 (1994) 278
Comparison of AMP precipitate method and impregnated $Cu_2[Fe(CN)_6]$ filters for the determination of radiocesium concentrations in natural waters, P. Roos, E. Holm and R.B.R. Persson 339 (1994) 282
U and Th distribution in solution and suspended matter from rivers affected by the phosphate rock processing in southwestern Spain, A. Martínez-Aguirre, M. García-León and M. Ivanovich 339 (1994) 287

Optimal shielding conditions for low level Ge detectors (*abstract*), G. Heusser 339 (1994) 294
Cosmic particle spectrum as a quench monitor in low level liquid scintillation spectrometry, L. Kaihola 339 (1994) 295
Study of the background components for a Ge(HP) detector in environmental radioactivity measurements, F. Sánchez, E. Navarro, J.L. Ferrero, A. Baeza and J.M. Barrigón 339 (1994) 297
Determination of isotopes of uranium and thorium in low-level environmental samples, M.L. Aceña, M.T. Crespo, M.P. Galán and J.L. Gascón 339 (1994) 302
Measurement of low-level radioactivity in the Modane underground laboratory, Y. Bourlat, J.-C. Millies-Lacroix and D. Abt 339 (1994) 309
Characterization of large-area reference sources for the calibration of alpha-contamination monitors, H. Janssen and R. Klein 339 (1994) 318
Investigation of the natural radioactivity of volcanic rock samples using a low background gamma-ray spectrometer, R. Wordel, D. Mouchel, V.A. Solé, J. Hoogewerff and J. Hertogen 339 (1994) 322
Measurements of the level of soil contamination using helicopters, D.M. Farcaşiu, M. Sahagia and S. Sahagia 339 (1994) 329

Section V. Standards, ^{75}Se and ^{192}Ir

Standardization of a 50 GBq ^{152,154}Eu extended volume source, D.F.G. Reher, B. Denecke, E. De Roost and K. van der Meer 339 (1994) 334
Standardization of iodine-129 by the TDCR liquid scintillation method and 4π $\beta-\gamma$ coincidence counting, P. Cassette, J. Bouchard and B. Chauvenet 339 (1994) 339
Intercomparison of internal proportional gas counting of ^{85}Kr and ^{3}H, J.L. Makepeace, F.E. Clark, J.L. Picolo, N. Coursol, E. Günther and M.P. Unterweger 339 (1994) 343
A personal computer based data acquisition system for the direct standardization of radionuclides, D. Santry and G. Bowes 339 (1994) 349
Measurement of ^{75}Se activity by correlation and coincidence counting, D. Smith and D.H. Woods 339 (1994) 357
The treatment of malignant diseases in Romania using stainless steel encapsulated iridium-192 sources, I. Stanef, G. Matache, V. Ciocăltei and G. Gheorghiev 339 (1994) 363
Activity determination of ^{192}Ir solid sources by ionization chamber measurements using calculated corrections for self-absorption, L. Büermann, H.-M. Kramer, H. Schrader and H.-J. Selbach 339 (1994) 369
Analytical calculations on radioactivity measurements of ^{192}Ir metallic sources with a calibrated ionization chamber, A. Uritani, T. Genka, C. Mori and D.F.G. Reher 339 (1994) 377
Influences from delayed events on the activity determination of ^{75}Se by the coincidence counting method, A. Iwahara, I.P.A. Salati, R. Poledna, C.J. da Silva and L. Tauhata 339 (1994) 381
Second EUROMET comparison of air kerma rate and activity measurements of ^{192}Ir brachytherapy wires, D.F.G. Reher, A.H.L. Aalbers, H. Bjerke, N. Drugge, T. Genka, M.J. Rossiter, D. Santry, J.P. Sephton, G. Sibbens, J. Seuntjens, H. Thierens, F. Verhaegen, T.T. Williams and M.J. Woods 339 (1994) 386
Standardization of selenium-75: some observations, P.K. Srivastava, H.K. Sahoo, G.D. Khera and S.C. Misra . 339 (1994) 391
Correction of the isomeric-state effect using the double dead-time method in the activity measurement of ^{75}Se, B. Chauvenet and J. Bouchard 339 (1994) 394
Radioactivity measurements of ^{192}Ir wire sources with a microcalorimeter, T. Genka, S. Iwamoto, N. Takeuchi, A. Uritani and C. Mori 339 (1994) 398
Standardization of ^{59}Fe and ^{131}I by liquid scintillation counting, E.W. Günther 339 (1994) 402
Measurement of the activity concentration of a solution of ^{75}Se, G. Ratel 339 (1994) 408

Beam test of a 12-layer scintillating-fiber charged-particle tracking system, B. Abbott, B.L. Howell, D. Koltick, R.L. McIlwain, C.J. Schmitz, E.I. Shibata, Z. Zhou, B. Baumbaugh, M. Ivancic, J. Jaques, R. Kehoe, M. Kelley, M. Mahoney, J. Marchant, R. Ruchti, M. Wayne, M. Atac, A. Baumbaugh, J.E. Elias, A. Romero, D. Chrisman, J. Park, M.R. Adams, M. Chung, H. Goldberg, S. Margulies, J. Solomon, R. Chaney, J. Orgeron, T. Armstrong, R.A. Lewis, G.S. Mitchell, R.S. Moore, J. Passaneau, G.A. Smith, M. Corcoran, D. Adams, F. Bird, H. Fenker, T. Regan and J. Thomas 339 (1994) 439
A high-resolution detector based on liquid-core scintillating fibres with readout via an electron-bombarded charge-coupled device, C. Cianfarani, A. Duane, J.-P. Fabre, A. Frenkel, S.V. Golovkin, A.M. Gorin, K. Harrison, E.N. Kozarenko, A.E. Kushnirenko, E.A. Ladygin, G. Martellotti, A.M. Medvedkov, P.A. Nass, V.P. Obudovski, G. Penso, Yu.P. Petukhov, W.P. Siegmund, V.E. Tyukov and V.G. Vasilchenko 339 (1994) 449
A position sensitive detector for the g-2 experiment using pencil fibers, P. Cushman and S. Hou 339 (1994) 456
Absolute calibration and monitoring of a spectrometric channel using a photomultiplier, E.H. Bellamy, G. Bellettini, J. Budagov, F. Cervelli, I. Chirikov-Zorin, M. Incagli, D. Lucchesi, C. Pagliarone, S. Tokar and F. Zetti 339 (1994) 468
Performance of a LHC front-end running at 67 MHz, RD20 Collaboration, R. Brenner, J. Kaplon, H. von der Lippe, E. Nygård, S. Roe, P. Weilhammer and K. Yoshioka 339 (1994) 477
A high resolution induction strip readout for wire chambers , A. Kruse, T. Reichel and G. Zech 339 (1994) 485

Fast simulation of longitudinal hadron shower profiles in the ZEUS calorimeter, A.F. Zarnecki 339 (1994) 491
Calibration of the forward and rear ZEUS calorimeter using cosmic ray muons, U. Behrens, G. Cases, A. Freidhof, A. Fürtjes, J. Mitchell, K. Molthagen, B. Surrow, T. Tsurugai and R. Yoshida 339 (1994) 498
Radiation tolerance of single-sided silicon microstrips, RD20 Collaboration, A. Holmes-Siedle, M. Robbins, S. Watts, P. Allport, R. Brenner, H.-G. Moser, S. Roe, J. Straver, P. Weilhammer, P. Chochula, I. Mikulec, S. Moszczynski, M. Turala, W. Dabrowski, P. Grybos, M. Idzik, D. Loukas, K. Misiakos, I. Siotis, K. Zachariadou, W. Dulinski, J. Michele, M. Schaeffer, R. Turchetta, P. Booth, J. Richardson, N. Smith, K. Gill, G. Hall, R. Sachdeva, S. Sotthibandhu, D. Vitè, R. Wheadon, C. Arrighi, P. Delpierre, M.-C. Habrard, J.-C. Clemens, T. Mouthuy, B.S. Avset, L. Evensen, A. Hanneborg, T.A. Hansen, D. Bisello, A. Giraldo, A. Paccagnella, L. Kurchaninov, E. Spiriti, R. Apsimon, P. Giubellino, L. Ramello, W.L. Prado da Silva, M. Krammer and M. Schuster 339 (1994) 511
Drift velocities and magnetic deflection in CF_4 based gases, Y.-H. Chang, U.J. Becker, B.R. Smith and C. Wang 339 (1994) 524

Instruments and Methods for Nuclear Spectroscopy

Performance of the LNL recoil mass spectrometer, C. Signorini, S. Beghini, A. Dal Bello, G. Montagnoli, F. Scarlassara, G.F. Segato, F. Soramel, D. Ackermann, L. Corradi, A. Facco, H. Moreno, L. Müller, D.R. Napoli and G.F. Prete 339 (1994) 531
Heavy ion reaction analyzer (HIRA): a recoil mass separator facility at NSC, A.K. Sinha, N. Madhavan, J.J. Das, P. Sugathan, D.O. Kataria, A.P. Patro and G.K. Mehta 339 (1994) 543

Neutron Physics

Separating the polarising power from depolarisation in a set-up with 3 neutron polarisers, P.T. Por, W.H. Kraan and M.Th. Rekveldt 339 (1994) 550
A Monte Carlo code for multiple neutron scattering events in a thick sample for (n, γ) experiments, K. Senoo, Y. Nagai, T. Shima, T. Ohsaki and M. Igashira 339 (1994) 556

Nuclear Electronics

Design and performance of an analog delay and buffer chip for use with silicon strip detectors at LHC, The RD20 collaboration, R. Brenner, H. von der Lippe, J. Michel, E. Nygård, T. Ødegaard, N.A. Smith, P. Weilhammer and K. Yoshioka 339 (1994) 564

Numerical and Data Analysis

Correction of measured multiplicity distributions by the simulated annealing method, M. Hafidouni 339 (1994) 570
Concept and significance of a dimensionless sensitivity matrix in applications of generalized least-squares analysis (*Letter to the Editor*), D.L. Smith 339 (1994) 626

Dosimetry, Space Radiation and Medical Applications

The energy response of a spherical neutron dose equivalent counter, M. Tan, C.M. Chen, Y.Q. Wen and Z. Wang 339 (1994) 573
Investigation of detection threshold energy of high energy cascade shower using a thermoluminescence sheet and a hot gas reader, S. Kino, A. Nakanishi, T. Kitajima, T. Yanagita, T. Nakatsuka, N. Ohmori and M. Hazama 339 (1994) 580

Synchrotron Radiation Research

On a possibility to construct a high luminosity 2×5 GeV photon collider at SLC, E.L. Saldin, V.P. Sarantsev, E.A. Schneidmiller and M.V. Yurkov 339 (1994) 583
Numerical modeling of tapered undulators, B.I. Boyanov, G. Bunker, J.M. Lee and T.I. Morrison 339 (1994) 596
Simple plane grating monochromator for synchrotron radiation, L. Li-Jun, D. Cocco and W. Jark 339 (1994) 604

Optical design of an extended range plane grating monochromator for a bending magnet beamline, F. Lama, A. Derossi, M. Piacentini and N. Zema 339 (1994) 610
Comparison of modal and differential methods for multilayer gratings, V. Martynov, B. Vidal, P. Vincent, M. Brunel, D.V. Roschupkin, Yu. Agafonov, A. Erko and A. Yuakshin 339 (1994) 617

Letter to the Editor

Concept and significance of a dimensionless sensitivity matrix in applications of generalized least-squares analysis, D.L. Smith 339 (1994) 626